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             **Image available**
WPI Acc No: 1990-321339/ 199043
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 Artificial disk - for implantation between vertebrae made of specified
biocompatible materials
Patent Assignee: BOSCH GMBH ROBERT (BOSC )
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Number of Countries: 014 Number of Patents: 006
Patent Family:
Patent No
              Kind
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                   19901018
                             DE 3911610.
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WO 9011740
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EP 465514
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ES 2038517
               Т3
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Priority Applications (No Type Date): DE 3911610 A 19890408
Cited Patents: EP 107476; EP 298233; EP 356112; US 4309777
Patent Details:
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                         Main IPC
                                      Filing Notes
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                                     Based on patent WO 9011740
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DE 59000763
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                       A61F-002/44
                                     Based on patent EP 465514
Abstract (Basic): DE 3911610 A
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An artificial disk for implanting to replace a slipped disk between two vertebrae of the spinal column is made of a carrier disk (1) of silicone rubber with a rectangular or conical cross-section. Both sides of the carrier are lined by cover plates (2) made of carbon fibre reinforced thermosets, pref. of RECIFORM -TCF (TRIAZIN resin/C fibre). A rim bead (3) shapes the disk to suit the vertebrae. To join the disks to the bones, a layer of hydroxylapatite or of a mixt. of it with an ALPHA or BETA tricalciumphosphate is applied to the cover plate.

ADVANTAGE - This can be implanted in one piece, not in parts as in the conventional case. The new implant suffers no abrasion which is an extremely useful point. (4pp Dwg.No.1-3)

Abstract (Equivalent): EP 465514 B

Artificial intervertebral disc for implanting between two vertebrae of the spinal column, characterised in that a substrate (1) of a biocompatible silicone rubber is covered on both sides by cover panels (2) of a carbon fibre-reinforced, biocompatible thermoset material. (Dwg.2/3)

Title Terms: ARTIFICIAL; DISC; IMPLANT; VERTEBRA; MADE; SPECIFIED; BIOCOMPATIBLE; MATERIAL

Derwent Class: A96; D22; P32; P34

International Patent Class (Main): A61F-002/44

International Patent Class (Additional): A61L-027/00

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): A06-A00E3; A12-S08C; A12-S08D; A12-V02; D09-C01D Plasdoc Codes (KS): 0009 0011 0020 0231 1306 1311 3191 2020 2213 2675 3258 2765 2657

Polymer Fragment Codes (PF):

001 014 032 04- 05- 153 229 23& 231 308 309 38- 43& 473 50& 525 55& 597 598 62- 645 651 684 720 723

Derwent Registry Numbers: 5086-U